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Abstract

A built-in double oven comprising two muffles (1, 2), one above the other, has inner and outer cooling air duct systems with two blowers (5, 6), to provide improved heat shielding of adjacent pieces of furniture. The outer system comprises upper (a), rear (b), lower (c) and lateral intake ducts and a medial discharge duct (d) which is situated between the two muffles (1, 2). The inner system has lateral intake ducts also and a discharge duct (f) which is situated between the upper muffle (2) and the upper intake duct (a) of the outer cooling system. There may be some interconnection of the two cooling systems, and one of the blowers may be connected with the inner duct system while the other is connected predominantly with the outer duct system. The blowers may be placed at the rear of the double oven, between the two



muffles, and may have a common drive.

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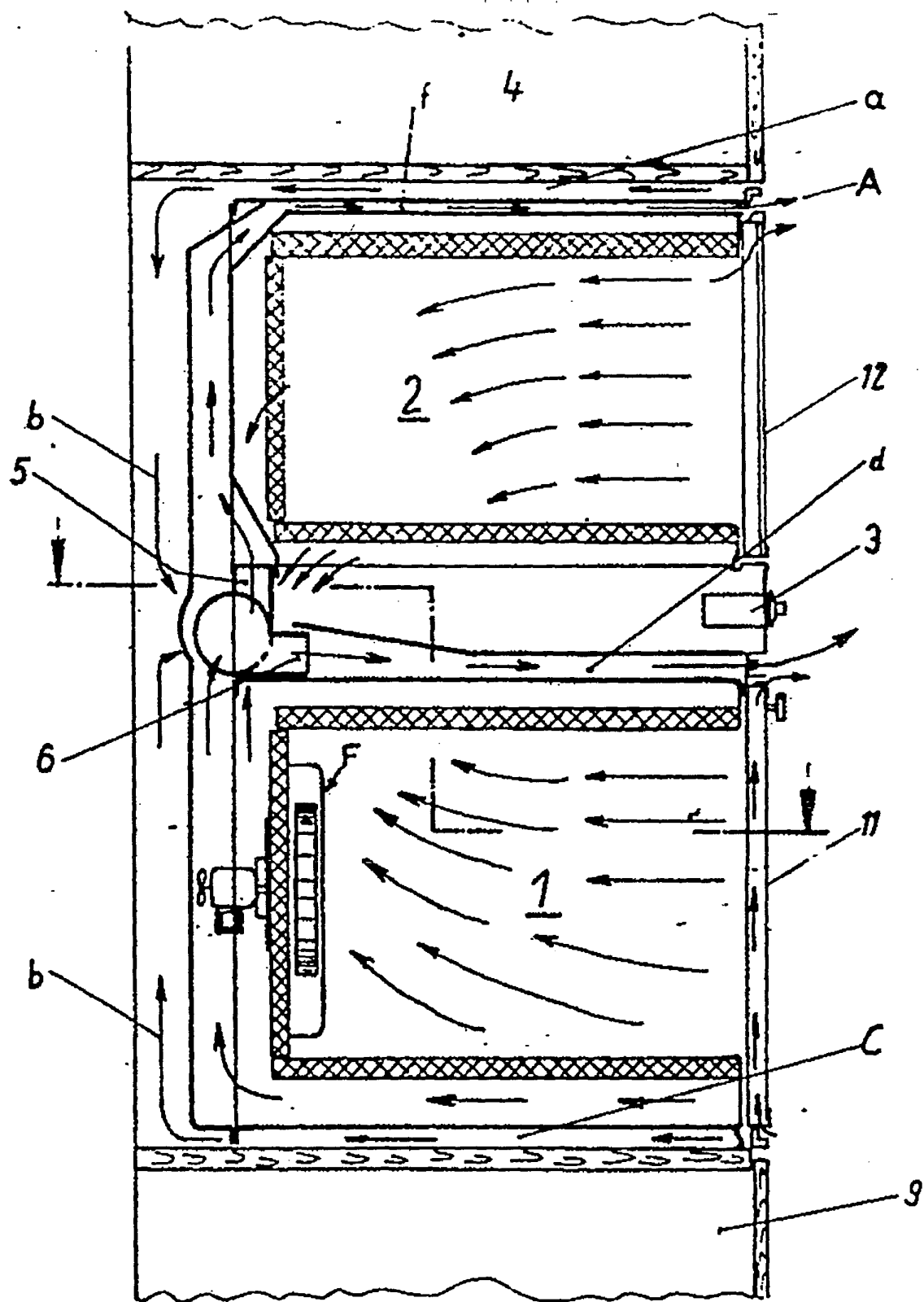


Fig.1



Fig.1

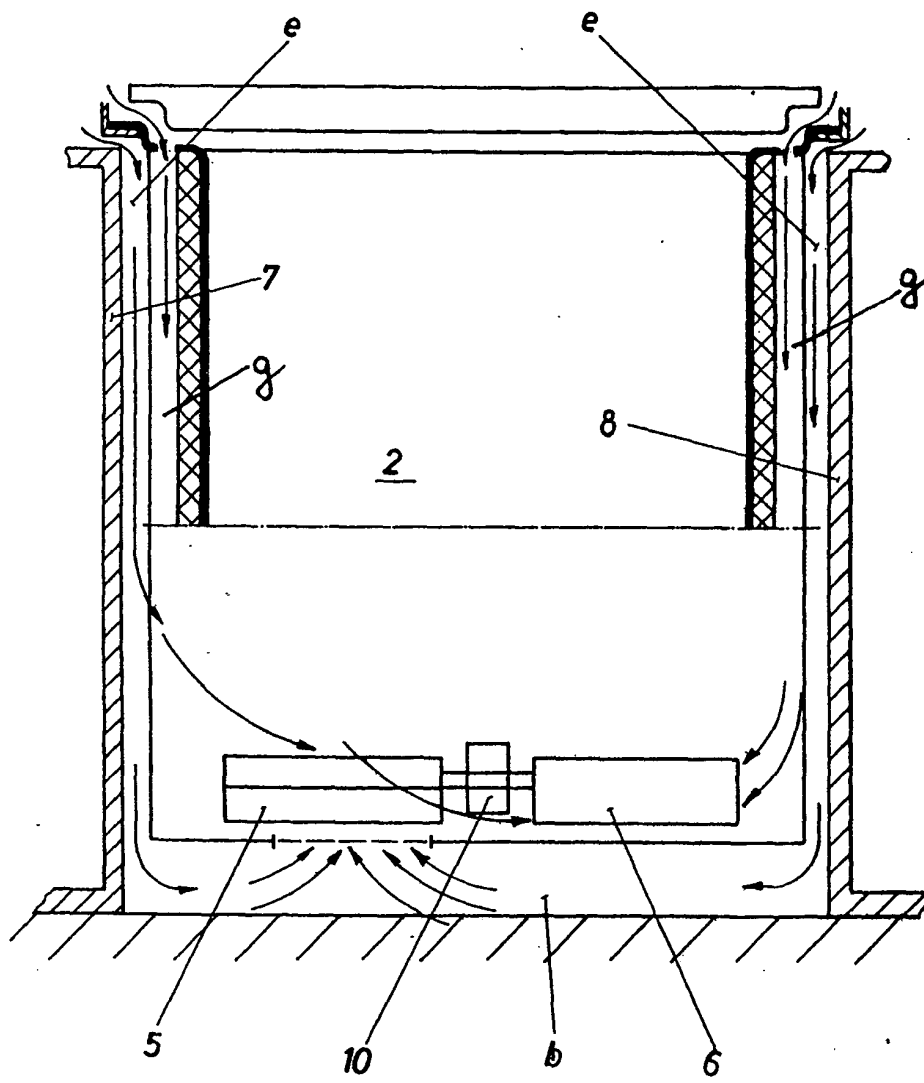


Fig. 2

Description

SPECIFICATION

Built-In Double Oven

The invention relates to cooking ovens and more particularly a fitted or built-in double oven comprising two oven muffles situated one above the other.

In fitted kitchens it is becoming more and more usual to arrange two oven muffles one above the other, to increase the possibilities of the various roasting and baking conditions. A particular problem with built-in ovens consists in the need to provide thermal insulation with respect to the surrounding pieces of furniture. In the case of single units it has been proposed to discharge accumulated heat through a cooling air duct surrounding the oven muffle. But such an arrangement is not satisfactory in the case of double ovens, since the cooling air, heated and laden with cooking vapours, which usually issues above the upper oven, has taken up dirt substances to an unacceptable extent detrimentally affecting the cupboards above.

The invention has the basic object of providing a cooling system for double ovens, which, whilst using simple means, provides effective shielding of the surrounding pieces of furniture, in particular the cupboards above the oven.

According to the present invention there is provided a built-in double oven according to claim 1 of the claims of this specification.

The provision of two cooling air duct systems situated one within the other ensures uniform dissipation of heat, thus preventing the occurrence of overheating of the adjacent pieces of furniture.

A constructional example of the invention is shown in the drawings, wherein:

Fig. 1 shows a section through a built-in double oven, and

Fig. 2 shows an arrangement of cooling air blowers at the rear.

Situated above a lower oven muffle 1, which is provided with a hot air circulating fan or blower F, is a further oven muffle 2 of conventional construction. A common control panel 3 is arranged between the two oven muffles, and the double oven is fitted below a top cupboard 4.

Between the two oven muffles 1 and 2, at the rear, there are two (first and second) cooling air blowers 5 and 6 which are situated adjacent one another and are associated with different cooling air duct systems. The first blower 5 draws cooling air in centrally through an outer duct system comprising an upper suction intake duct a, two rear part-ducts b, outer lateral ducts e, and a lower suction intake duct c, and blows the cooling air out again by way of a medial discharge duct d below the control panel 3.

The second blower 6 sucks cooling air in through inner lateral ducts g and blows it out through an upper discharge duct f which is situated between the upper muffle 2 and the upper intake duct a of the outer cooling air duct.

Some of the cooling air at the lateral ducts e also gets into the intake zone of the first cooling air blower 5. It is of only secondary importance what proportions of the cooling air flows are associated with one or other of the blowers 5 or 6 by suitable duct arrangements.

It would be possible, for example, to give the second blower 6 a connection to the rear cooling air duct b.

Thus, between the oven muffles and each of the adjacent cupboards 4, 7, 8 and 9 there is a duct through which flows as cool air as possible, whilst the heated cooling air is kept well away from the cupboards.

The cooling air blowers 5 and 6 have a common drive 10. The oven doors 11 and 12 are of double-walled construction in known manner, so that cooling air can flow through them also.

Claims

1. A built-in double oven comprising two oven muffles situated one above the other and having two cooling air blowers which are connected for air flow purposes with an outer cooling air duct comprising upper, rear, lower and lateral suction intake ducts and a medial discharge duct which is situated between the two muffles, and with an inner cooling air duct system which surrounds the oven muffles laterally also and whose discharge duct is situated between the upper oven muffle and the upper suction intake duct of the outer cooling air duct.
2. A built-in double oven according to claim 1, having two cooling air blowers which are situated adjacent one another at the rear side between the two oven muffles.
3. A built-in double oven according to either one of claims 1 and 2, wherein one of the cooling air blowers is connected with the inner cooling air duct system while the other cooling air blower is connected predominantly to the outer cooling air duct.
4. A built-in double oven according to any one of claims 1 to 3, wherein the two blowers have a common drive.
5. A built-in double oven substantially as herein described with reference to the accompanying drawings.

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